

March 16 - March 22, 2001

The Terra spacecraft is currently operating in Nominal Mode. All instruments are functioning well in Science Mode.

The ASTER Thermal Infrared (TIR) Capillary Pumped Heat Transfer System (CPHTS) performed nominally during the ASTER Long-Term Calibration conducted on DOY 078 (March 19).

Two new operating modes were created for the MISR instrument this week to support the forthcoming revision of flight software. This revision will leave the cameras on to avoid thermal cycling.

A Master Oscillator Frequency Adjust was conducted on DOY 081 (March 22).

A Security Scan was conducted for the Back-up Earth Observing System Operations Center (EOS) on March 16. Back-up EOC capabilities are fully in place except for SCAMA's, which will be completed after the Space Shuttle lands.

MDA2BITE failures (High Gain Antenna Motor Drive Assembly upsets) occurred on DOY 076 and DOY 78 (March 17 and 19). Data loss occurred on DOY 76 (see below).

#### SCIENCE DATA LOSS:

3,941,700 CADUs of ASTER science data were lost on DOY 076 (March 17) from 01:32 to 03:12z. Between 20-40K (final amount to be determined) CADUs of MODIS science data were lost on DOY 076 at 01:23z due to the MDA2BITE failure that occurred in the middle of a playback.

#### ISSUES:

The Flight Operations Team is awaiting a response from the ASTER team on the Capillary Pumped Heat Transfer System (CPHTS) setting. This change is in response to ASTER having to change the shortwave infrared (SWIR) computer duty cycle to 100 percent.

The GSFC Power Branch is still working with additional consultants to fully understand the Solar Array Shunt 10 anomaly.

#### PLANS:

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<li>MISR - Cal Diode will occur on March 24, and MISR Local Mode will happen on March 23 and 25.

<li>The new MISR software will be uploaded on April 18.

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